



39780-1216.TXT

SEQUENCE LISTING

<110> Ashkenazi, Avi J.
Fong, Sherman
Goddard, Audrey
Gurney, Austin L.
Napier, Mary A.
Tumas, Daniel
Wood, William I.

<120> COMPOUNDS, COMPOSITIONS AND METHODS FOR
THE TREATMENT OF DISEASES CHARACTERIZED BY A33- RELATED
ANTIGENS

<130> P1216R1C1D4

<140> 10/785,220

<141> 2004-02-24

<150> US 09/254,465

<151> 1999-03-05

<150> PCT/US98/24855

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<150> US 60/078,936

<151> 1998-03-20

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<151> 1998-09-17

<160> 30

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Lys	Ser	Val	Thr	Arg	Glu	Asp	Thr	Gly	Thr	Tyr	Thr	Cys	Met	Val	Ser
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Ile	Gly	Asn	Arg	Ala	Val	Leu	Thr	Cys	Ser	Glu	Gln	Asp	Gly	Ser	Pro
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Pro	Ser	Glu	Tyr	Thr	Trp	Phe	Lys	Asp	Gly	Ile	Val	Met	Pro	Thr	Asn
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Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro
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 Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly
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 Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser
 210 215 220
 Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
 225 230 235 240
 Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly
 245 250 255
 Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly
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 35 40 45
 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
 50 55 60
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
 65 70 75 80
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
 85 90 95
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
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 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
 115 120 125
 Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
 130 135 140
 Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
 145 150 155 160
 Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
 165 170 175
 Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
 180 185 190
 Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
 195 200 205
 Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
 210 215 220
 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
 225 230 235 240
 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
 245 250 255
 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
 260 265 270
 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
 275 280 285
 Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
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 <213> Artificial Sequence

<220>
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 ctgacatgct cagaacaaga tggttcccca ccttctgaat acacctgggt caaagatggg 600
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Ala	Ser	Gln	Gly	Lys	Ser	Val	Thr	Leu	Pro	Cys	Thr	Tyr	His	Thr	Ser
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<213> Homo sapiens

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<213> Homo sapiens

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      35      40      45
Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg Leu Glu Trp Lys
      50      55      60
Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
      65      70      75      80
Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
      85      90      95
Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser
      100      105      110
Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
      115      120      125
Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser
      130      135      140
Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly
      145      150      155      160
Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu
      165      170      175
Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met
      180      185      190
Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp
      195      200      205
Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg
      210      215      220
Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
      225      230      235      240
Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu
      245      250      255
Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser
      260      265      270
Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn
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<212> PRT

<213> Mus musculus

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      35      40      45
Cys Thr Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Val
      50      55      60
Gln Gly Ser Thr Thr Ala Leu Val Cys Tyr Asn Ser Gln Ile Thr Ala
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Pro Tyr Ala Asp Arg Val Thr Phe Ser Ser Ser Gly Ile Thr Phe Ser
      85      90      95
Ser Val Thr Arg Lys Asp Asn Gly Glu Tyr Thr Cys Met Val Ser Glu
      100      105      110
Glu Gly Gly Gln Asn Tyr Gly Glu Val Ser Ile His Leu Thr Val Leu
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 165 170 175
Ala Lys Lys Thr Arg Ala Phe Met Asn Ser Ser Phe Thr Ile Asp Pro
 180 185 190
Lys Ser Gly Asp Leu Ile Phe Asp Pro Val Thr Ala Phe Asp Ser Gly
 195 200 205
Glu Tyr Tyr Cys Gln Ala Gln Asn Gly Tyr Gly Thr Ala Met Arg Ser
 210 215 220
Glu Ala Ala His Met Asp Ala Val Glu Leu Asn Val Gly Gly Ile Val
 225 230 235 240
Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Leu Leu Ile Phe Gly
 245 250 255
Val Trp Phe Ala Tyr Ser Arg Gly Tyr Phe Glu Thr Thr Lys Lys Gly
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cagaggctga ggcaggcgga tcacctgagg tcgggagttc gggatcagcc tgaccaacat 1740
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agctgctcag gagcctggca acaagagcaa aactccagct ca 1842

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<220>
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 <213> Artificial Sequence

 <220>
 <223> Artificial sequence

 <400> 13
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 <213> Artificial Sequence

 <220>
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 <400> 14
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 <210> 15
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 <212> DNA
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 <220>
 <223> Artificial sequence

 <400> 15
 taggaagagt tgctgaaggc acgg 24

 <210> 16
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 <220>
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 <400> 16
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 <220>
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 <210> 18
 <211> 24
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<223> Artificial sequence

<400> 18

tatccctcca attgagcacc ctgg

24

<210> 19

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<210> 22

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

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<400> 22

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<211> 260

<212> PRT

<213> Homo sapiens

<400> 23

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Ile	Pro	Glu	Asn	Pro	Val	Lys	Leu	Ser	Cys	Ala	Tyr	Ser	Gly	Phe	
			20				25					30			
Ser	Ser	Pro	Arg	Val	Glu	Trp	Lys	Phe	Asp	Gln	Gly	Asp	Thr	Thr	Arg
		35					40				45				
Leu	Val	Cys	Tyr	Asn	Asn	Lys	Ile	Thr	Ala	Ser	Tyr	Glu	Asp	Arg	Val
	50					55				60					
Thr	Phe	Leu	Pro	Thr	Gly	Ile	Thr	Phe	Lys	Ser	Val	Thr	Arg	Glu	Asp
65					70				75					80	
Thr	Gly	Thr	Tyr	Thr	Cys	Met	Val	Ser	Glu	Glu	Gly	Gly	Asn	Ser	Tyr
			85						90					95	

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Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro Ser Lys Pro
 100 105 110
 Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg Ala Val Leu
 115 120 125
 Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr Thr Trp Phe
 130 135 140
 Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr Arg Ala Phe
 145 150 155 160
 Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu Leu Val Phe
 165 170 175
 Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg
 180 185 190
 Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg Met Glu Ala
 195 200 205
 Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu Val Thr Leu
 210 215 220
 Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala Tyr Ser Arg
 225 230 235 240
 Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys Lys Val Ile
 245 250 255
 Tyr Ser Gln Pro
 260

<210> 24
 <211> 270
 <212> PRT
 <213> Homo sapiens

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 20 25 30
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 35 40 45
 Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser Asn Lys Asn
 50 55 60
 Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile Ser Asn Asn
 65 70 75 80
 Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu Thr Met Ala
 85 90 95
 Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser Asp Leu Glu
 100 105 110
 Gly Asn Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val Pro Ser
 115 120 125
 Lys Pro Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly Asn Asn Ile
 130 135 140
 Gln Leu Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro Gln Tyr Ser
 145 150 155 160
 Trp Lys Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu Ala Gln Pro
 165 170 175
 Ala Ser Gly Gln Pro Val Ser Leu Lys Asn Ile Ser Thr Asp Thr Ser
 180 185 190
 Gly Tyr Tyr Ile Cys Thr Ser Ser Asn Glu Glu Gly Thr Gln Phe Cys
 195 200 205
 Asn Ile Thr Val Ala Val Arg Ser Pro Ser Met Asn Val Ala Leu Tyr
 210 215 220
 Val Gly Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile Ile Gly Ile
 225 230 235 240
 Ile Ile Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn Thr Glu Asp
 245 250 255
 Lys Glu Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu Pro
 260 265 270

<210> 25

<211> 263
 <212> PRT
 <213> Homo sapiens

<400> 25

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Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His Ser Ser Glu Pro
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Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu Ser Cys Ala Tyr
20      25      30
Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Asp Gln Gly Asp
35      40      45
Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu
50      55      60
Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser Val Thr
65      70      75      80
Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly
85      90      95
Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro
100     105     110
Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg
115     120     125
Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr
130     135     140
Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr
145     150     155     160
Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu
165     170     175
Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys
180     185     190
Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg
195     200     205
Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu
210     215     220
Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala
225     230     235     240
Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys
245     250     255
Lys Val Ile Tyr Ser Gln Pro
260

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<210> 26
 <211> 273
 <212> PRT
 <213> Homo sapiens

<400> 26

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Gln Asp Val Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys
20      25      30
Thr Tyr His Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp
35      40      45
Lys Leu Leu Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser
50      55      60
Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile
65      70      75      80
Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu
85      90      95
Thr Met Ala Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser
100     105     110
Asp Leu Glu Gly Asn Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val
115     120     125
Pro Pro Ser Lys Pro Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly
130     135     140
Asn Asn Ile Gln Leu Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro
145     150     155     160

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Gln	Tyr	Ser	Trp	Lys	Arg	Tyr	Asn	Ile	Leu	Asn	Gln	Glu	Gln	Pro	Leu
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Ala	Gln	Pro	Ala	Ser	Gly	Gln	Pro	Val	Ser	Leu	Lys	Asn	Ile	Ser	Thr
			180					185					190		
Asp	Thr	Ser	Gly	Tyr	Tyr	Ile	Cys	Thr	Ser	Ser	Asn	Glu	Glu	Gly	Thr
		195					200					205			
Gln	Phe	Cys	Asn	Ile	Thr	Val	Ala	Val	Arg	Ser	Pro	Ser	Met	Asn	Val
	210					215					220				
Ala	Leu	Tyr	Val	Gly	Ile	Ala	Val	Gly	Val	Val	Ala	Ala	Leu	Ile	Ile
225					230					235					240
Ile	Gly	Ile	Ile	Ile	Tyr	Cys	Cys	Cys	Cys	Arg	Gly	Lys	Asp	Asp	Asn
				245					250					255	
Thr	Glu	Asp	Lys	Glu	Asp	Ala	Arg	Pro	Asn	Arg	Glu	Ala	Tyr	Glu	Glu
			260					265					270		
Pro															

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<220>
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 atcatgtgaa gtaccctctt ctgctctgag tggaactgtg gtagagctac gatgtcaaga 180
 caaagaaggg aatccagctc ctgaatacac atgggtttaag gatggcatcc gtttgctaga 240
 aaatcccaga cttggctccc aaagcaccaa cagctcatac acaatgaata caaaaactgg 300
 aactctgcaa ttttaatactg tttccaaact ggacactgga gaatattcct gtgaagcccg 360
 caattctgtt ggatatcgca ggtgtcctgg ggaaacgaat gcaagtagat gat 413

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 <212> DNA
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<220>
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<400> 28
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<210> 29
 <211> 23
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<220>
 <223> Artificial sequence

<400> 29
 acctgcgata tccaacagaa ttg 23

<210> 30
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<400> 30
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